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XP-002251822

AN - 2000-407015 [35]

AP - JP19980318024 19981109

CPY - CENG

DC - L01

DR - 1498-U 1499-U 1503-U 1510-U 1517-U 1519-U 1521-U 1544-U 1694-U 1941-U

FS - CPI

IC - C03C3/078 ; C03C3/085 ; C03C3/087 ; C03C3/089 ; C03C3/093

MC - L01-A01A

PA - (CENG) CENTRAL GLASS CO LTD

PN - JP2000143280 A 20000523 DW200035 C03C3/078 007pp

PR - JP19980318024 19981109

XA - C2000-123463

**XIC - C03C-003/078 ; C03C-003/085 ; C03C-003/087 ; C03C-003/089 ;
C03C-003/093**

AB - JP2000143280 NOVELTY - The composition consists of SiO₂, Al₂O₃, B₂O₃, alkali metal oxide (R₂O), divalence metallic oxide (RO) and ZrO₂ mixed in predetermined weight percentage so that the thermal expansion coefficient of the composition in the temperature range of 30-300 deg. C is within 70-90 multiply 10⁻⁷/ deg. C and the Vickers hardness level Hv at most 5.2 GPa.

- DETAILED DESCRIPTION - The glass composition consists of SiO₂, Al₂O₃, B₂O₃, Li₂O, Na₂O and K₂O mixed respectively in the weight percentage ranges of 71-83, 0-11, 0-5, 0-5, 6-20 and 0-12. The weight percentage of alkali metal oxides (R₂O) consisting of Li₂O, Na₂O and K₂O is arranged to be within 6-20. The divalence metallic oxide (RO) formed by mixing MgO, CaO, SrO and BaO in the weight percentage of 0-8, 0-10, 0-5 and 0-5 has a total weight percentage ratio of 3-10. The weight percentage of ZrO₂ is 0.5-3.

- USE - Soda lime silica group glass.

- ADVANTAGE - Improves brittleness of glass. Enables obtain glass with improved chemical resistance, glass melting and molding properties.

- (Dwg.0/0)

**IW - SODA LIME SILICA GROUP GLASS PREDETERMINED THERMAL EXPAND COEFFICIENT
SPECIFIED VICKERS HARD LEVEL**

**IKW - SODA LIME SILICA GROUP GLASS PREDETERMINED THERMAL EXPAND COEFFICIENT
SPECIFIED VICKERS HARD LEVEL**

NC - 001

OPD - 1998-11-09

ORD - 2000-05-23

PAW - (CENG) CENTRAL GLASS CO LTD

TI - Soda lime silica group glass has predetermined thermal expansion coefficients and specified Vickers hardness levels